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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/566,826 | 01/31/2006 | Akio Kimura | 06067/HG | 8012 |
| HOLTZ, HOLTZ, GOODMAN & CHICK PC 220 Fifth Avenue 16TH Floor NEW YORK, NY 10001-7708 | | | EXAMINER | |
| | | | VU, JAKE MINH | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 1618 | |
| | | | | |
| | | | MAIL DATE | DELIVERY MODE |
| | | | 03/15/2011 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) |
|---|---|--|
| | 10/566,826 | KIMURA ET AL. |
| Office Action Summary | Examiner | Art Unit |
| | JAKE VU | 1618 |
| The MAILING DATE of this communication app Period for Reply | pears on the cover sheet with the c | orrespondence address |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versilure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). |
| Status | | |
| 1) ■ Responsive to communication(s) filed on 14 Section 2a) ■ This action is FINAL . 2b) ■ This 3) ■ Since this application is in condition for alloware closed in accordance with the practice under Expression 1. | action is non-final. nce except for formal matters, pro | |
| Disposition of Claims | | |
| 4) ☐ Claim(s) 8.9,12 and 14 is/are pending in the ap 4a) Of the above claim(s) 8 and 9 is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 12 and 14 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o | awn from consideration. | |
| Application Papers | | |
| 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated and any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine | epted or b) objected to by the drawing(s) be held in abeyance. See ion is required if the drawing(s) is object. | e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d). |
| Priority under 35 U.S.C. § 119 | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list | s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)). | ion No ed in this National Stage |
| | | |
| Attachment(s) | | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Vail Data | 4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F | ate |
| J.S. Patent and Trademark Office | | art of Paper No./Mail Date 20110312 |

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DETAILED ACTION

Receipt is acknowledged of Applicant's Request for Continued Examination filed

on 09/14/2010; and Amendment filed on 08/27/2010.

• Claim 12 has been amended.

Claim 14 has been added.

Claims 10-11 and 13 have been cancelled.

Claims 8-9, 12 and 14 are pending in the instant application.

• Claims 8-9 have been previously withdrawn from consideration.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set

forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this

application is eligible for continued examination under 37 CFR 1.114, and the fee set

forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action

has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on

09/14/2010 has been entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall

set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 10-11 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement, pertaining to prostaglandin F2 α with a fluorine atom derivatives, **are withdrawn** in view of Applicant's cancellation of the claims 10-11.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 12 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over MORISHIMA et al (WO 02/22131 published on 03/21/2002; wherein US 2004/0097592 is used as a translation) in view of KOIDE et al (JP 07-033650; translation provided).

Applicant's claims are directed to a product comprising of: prostaglandin F2 α derivative having a fluorine atom, such as 16-phenoxy-15-deoxy-15,15-difluoro-17,18,19,20-tetranorprostaglandin F2 α ; a resin container formed from a polymer alloy of polyethylene terephthalate and polyarylate. Additional limitations include: liquid preparation; ratio of 1:2 to 2:1; inhibiting the decrease of the prostaglandin F2 α derivative.

MORISHIMA teaches a product comprised of: prostaglandin F2α derivative having a fluorine atom, such as 16-phenoxy-15-deoxy-15,15-difluoro-17,18,19,20-

tetranorprostaglandin F2 α (see US 2004/0097592 at [0024]); nonionic surfactant, such as polysorbate 80 (see [0004]); a resin container, such as a polymer of polyethylene terephthalate or acrylic resin (see [0014]). Additional disclosures include: ophthalmic solution (see [0001]), which reads on liquid preparation; inhibiting the active ingredient to be adsorbed to a resinous container (see abstract).

MORISHIMA does not specifically teach a resin container containing a copolymer of polyethylene terephthalate AND polyarylate with a ratio of 1:2 to 2:1.

KOIDE teaches using a resin container containing polyethylene terephthalate AND polyarylate (see translation at [0009]) for eye drop solutions containing nonionic surfactant (see [0006]). Additional disclosures include: the resin inhibits photolysis of the active ingredient (see [0001]) and inhibits the transference and adhesion of the active ingredient to the container (see [0002]); thus inhibiting the decrease of the active ingredient (see [0003]), which is the same objective as MORISHIMA and Applicant's claimed invention.

It would have been obvious to the person of ordinary skill in the art at the time the invention was made to incorporate MORISHIMA's ophthalmic product into KOIDE's resin container containing a polymer alloy of polyethylene terephthalate AND polyarylate. The person of ordinary skill in the art would have been motivated to make those modifications, because it is known that the resin container inhibits photolysis of ophthalmic drug and inhibits the transference and adhesion of the drug to the container; thus inhibiting the decrease of the active drug. The person of ordinary skill in the art reasonably would have expected success because both reference dealt with inhibiting

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the decrease of active agents in eye drop formulation using non-ionic surfactant and resin containers.

The references do not specifically teach adding the ingredients in the ratio amount as claimed by Applicant. The amount of a specific ingredient in a polymer is clearly a result effective parameter that a person of ordinary skill in the art would routinely optimize. Optimization of parameters is a routine practice that would be obvious for a person of ordinary skill in the art to employ and reasonably would expect success. It would have been customary for an artisan of ordinary skill to determine the optimal amount of ratio in order to best achieve the desired results. Thus, absent some demonstration of unexpected results from the claimed parameters, this optimization of ingredient amount would have been obvious at the time of Applicant's invention.

Response to Arguments

Applicant argues that Morishima et al. reference (WO 02/22131) discloses an invention which focuses on additives of an eye drop, and discloses that the absorption of prostaglandin derivatives on a resin container can be inhibited by adding an additive (polysorbate 80 or ethylenediamine-tetraacetate) to an eye drop comprising prostaglandin derivatives. Whereas the presently claimed invention is characterized in using a polymer alloy of polyethylene terephthalate and polyarylate in a particular ratio range as a material for a container for an eye drop to inhibit a decrease of the content of specific prostaglandin F2a derivatives. The Koide et al. reference (JP 7-33650) is characterized in that vitamin A is contained in a container made of polyethylene

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terephthalate, containing a pigment or pigments and a U-polymer (polyarylate), to inhibit the migration of vitamin A, which is unstable in light. Thus, since the container of Koide et al. (JP 7-33650) includes vitamin A, whereas the container of the presently claimed invention includes 16-phenoxy-15-deoxy-15,15-difluoro-17,18,19,20-tetranorprostaglandin F2alpha, it is clear that the chemicals in the respective containers include compounds that have completely different chemical structures and chemical properties. Furthermore, Koide et al. describe in paragraph [0008] that the fourth essential constituent of Koide et al. is a pigment which may have a high light shielding effect, such as tinuvin or anthraquinone yellow dye. Koide et al. also disclose that when the light shielding wavelength is less than 380nm, even after the addition of the pigment, the vitamin A therein decreases significantly after a long period.

Moreover, as is clear from Table 2 of Koide et al. (JP 7-33650), although Comparative Example 4 includes polyethylene terephthalate and a U-polymer as materials of a container, the concentration (residual ratio) of vitamin A is merely 26%. Considering that Koide et al. describe the comparison as an example, wherein no stabilizing effect of vitamin A is exhibited, it is respectfully submitted that from the disclosure of Koide et al., one of ordinary skill in the art would not consider to replace the vitamin A of Koide et al. with 16-phenoxy-15-deoxy-15,15-dif1uoro-17,18,19,20-tetranorprostagland F2 alpha.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir.

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1986). In this case, the primary reference teaches Applicant's prostaglandin F2α derivative and the secondary reference teaches the Applicant's resin container formed from a polymer alloy of polyethylene terephthalate and polyarylate, wherein the resin container protects the ophthalmic drug. It would have been obvious to one skilled in the art to place the prostaglandin derivative into the resin container, since it is known that the resin container inhibits photolysis of the ophthalmic drug and inhibits the transference and adhesion of the drug to the container; thus inhibiting the decrease of the active drug, which is the same objective as Applicant's claimed invention.

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Any inquiry concerning this communication or earlier communications from the

Telephonic Inquiries

examiner should be directed to JAKE VU whose telephone number is (571)272-8148.

The examiner can normally be reached on Mon-Tue and Thu-Fri 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Hartley can be reached on (571) 272-0616. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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/Jake M. Vu/

Primary Examiner, Art Unit 1618